

## AMENDMENTS TO THE CLAIM

Please replace the pending claims with the following claim listing:

1. **(Currently Amended)** An optical waveguide material comprising a crystal having a composition of  $K_{1-y}Li_yTa_{1-x}Nb_xO_3$  (KLTN:  $0 < x, y < 1$ );

wherein at least one element selected from the group consisting of Zr, Hf, and Sn substitutes for a portion of one element of the constituent elements of KLTN, [[and]]

the segregation coefficients of the at least one element exceeds 1.0,

the crystal has the same perovskite type crystal structure as KLTN, and

a refractive index decrease is controlled by the amount of the at least one element.

2-8. **(Cancelled)**

9. **(Currently Amended)** An optical waveguide comprising a core and a clad whose refractive index is lower than that of the core;

wherein ~~at least either of a core material [[or]] and a clad material is a crystal~~ are crystals that [[has]] have a composition of  $K_{1-y}Li_yTa_{1-x}Nb_xO_3$  (KLTN:  $0 < x, y < 1$ ),

at least one element selected from the group consisting of Zr, Hf, and Sn substitutes for a portion of one element of the constituent elements of KLTN,

the segregation coefficients of the at least one element exceeds 1.0,

the crystal has the same perovskite type crystal structure as KLTN, and

the refractive index difference between the core and the clad is controlled by the amount of the at least one element selected from the group consisting of Zr, Hf, and Sn.

10-15. **(Cancelled)**